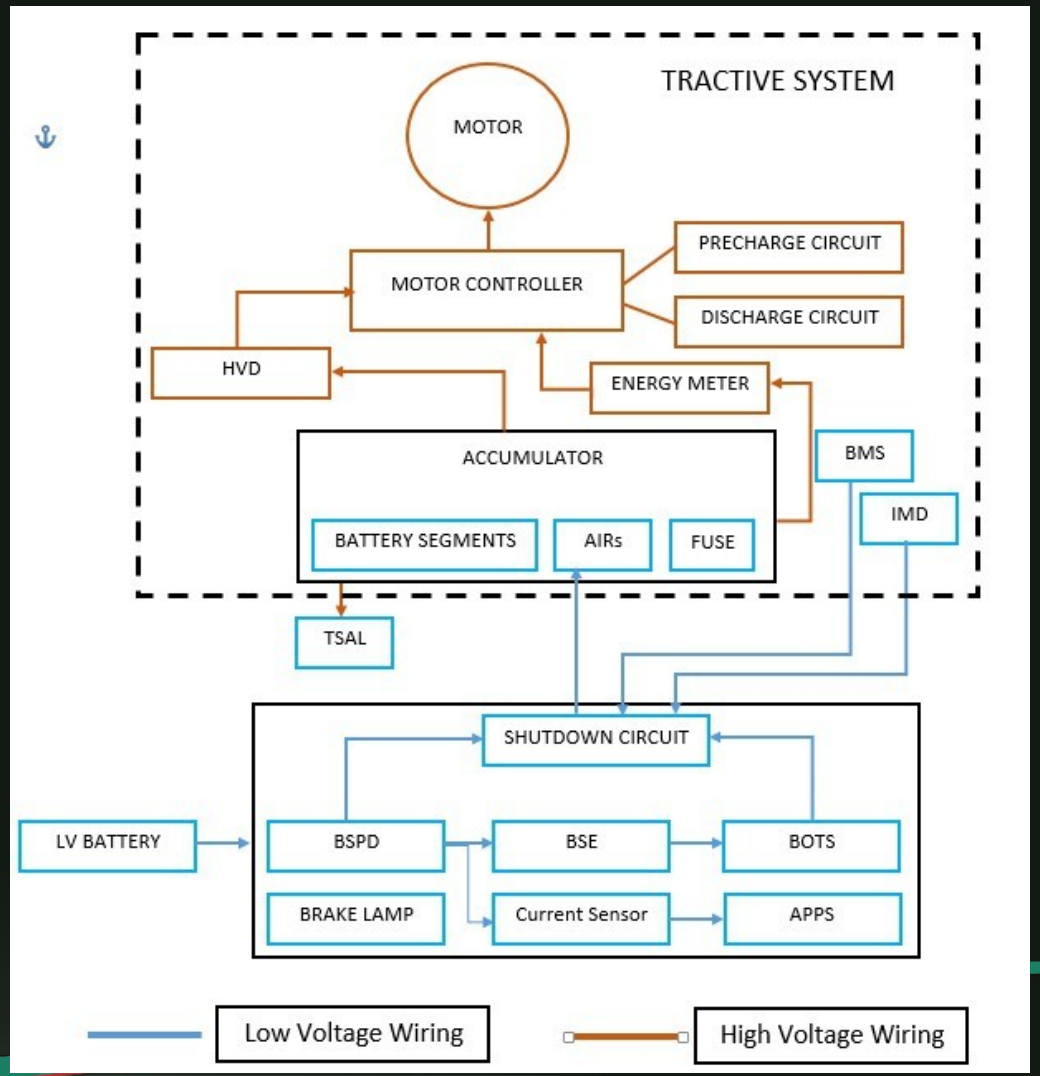
Sistem General Low Voltage

Blok Diagram Sistem



Blok Diagram Sistem

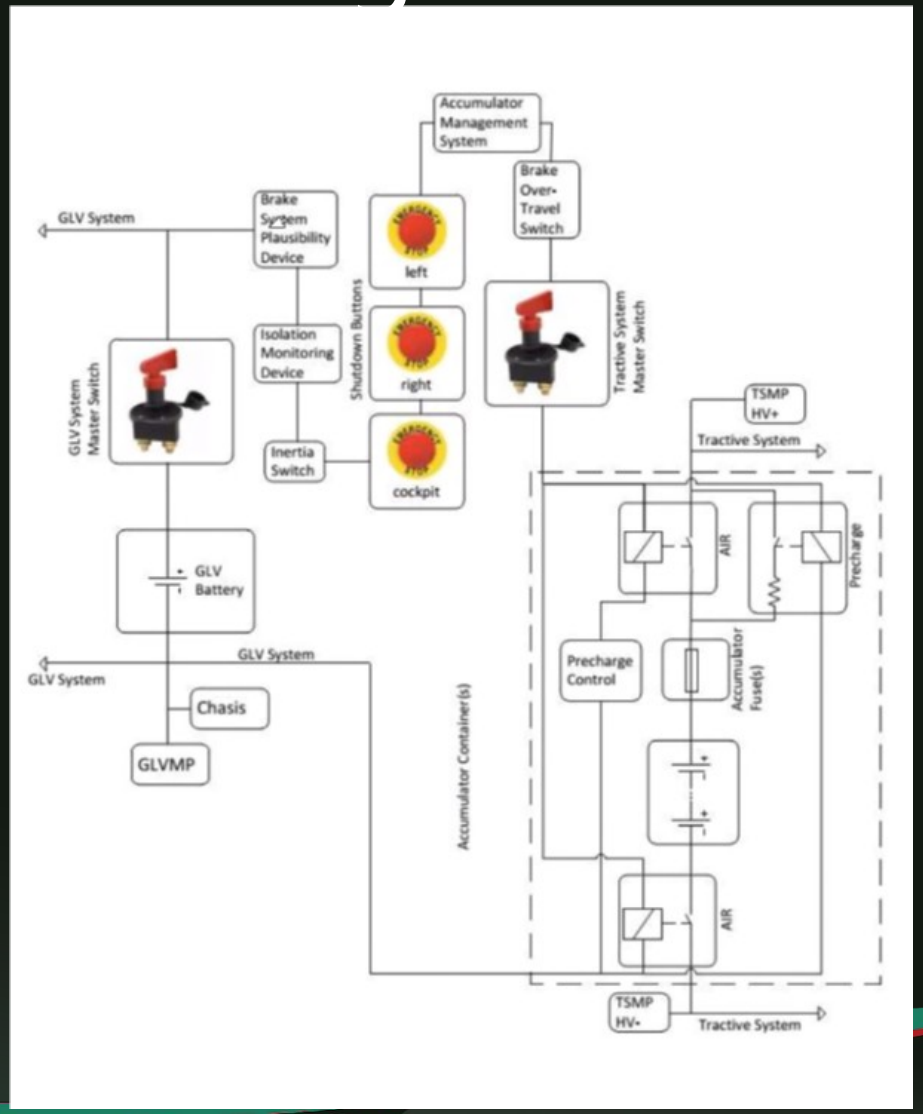


Diagram LV

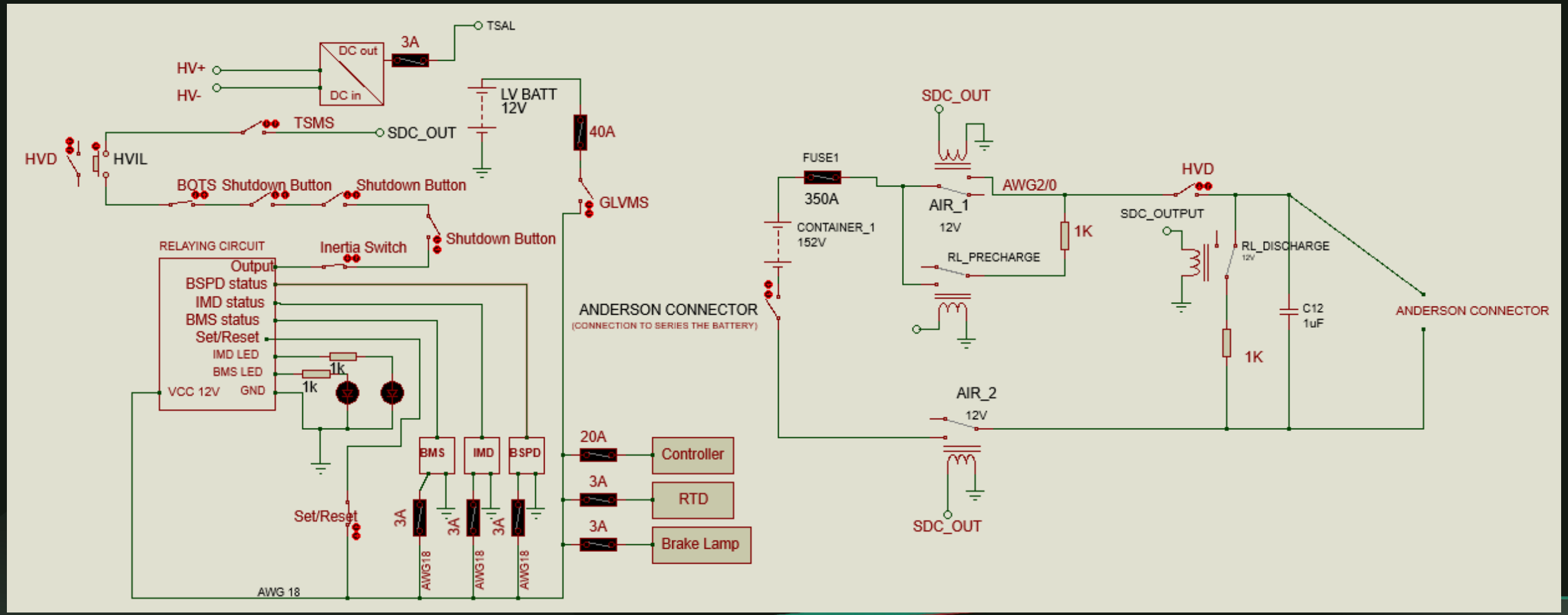
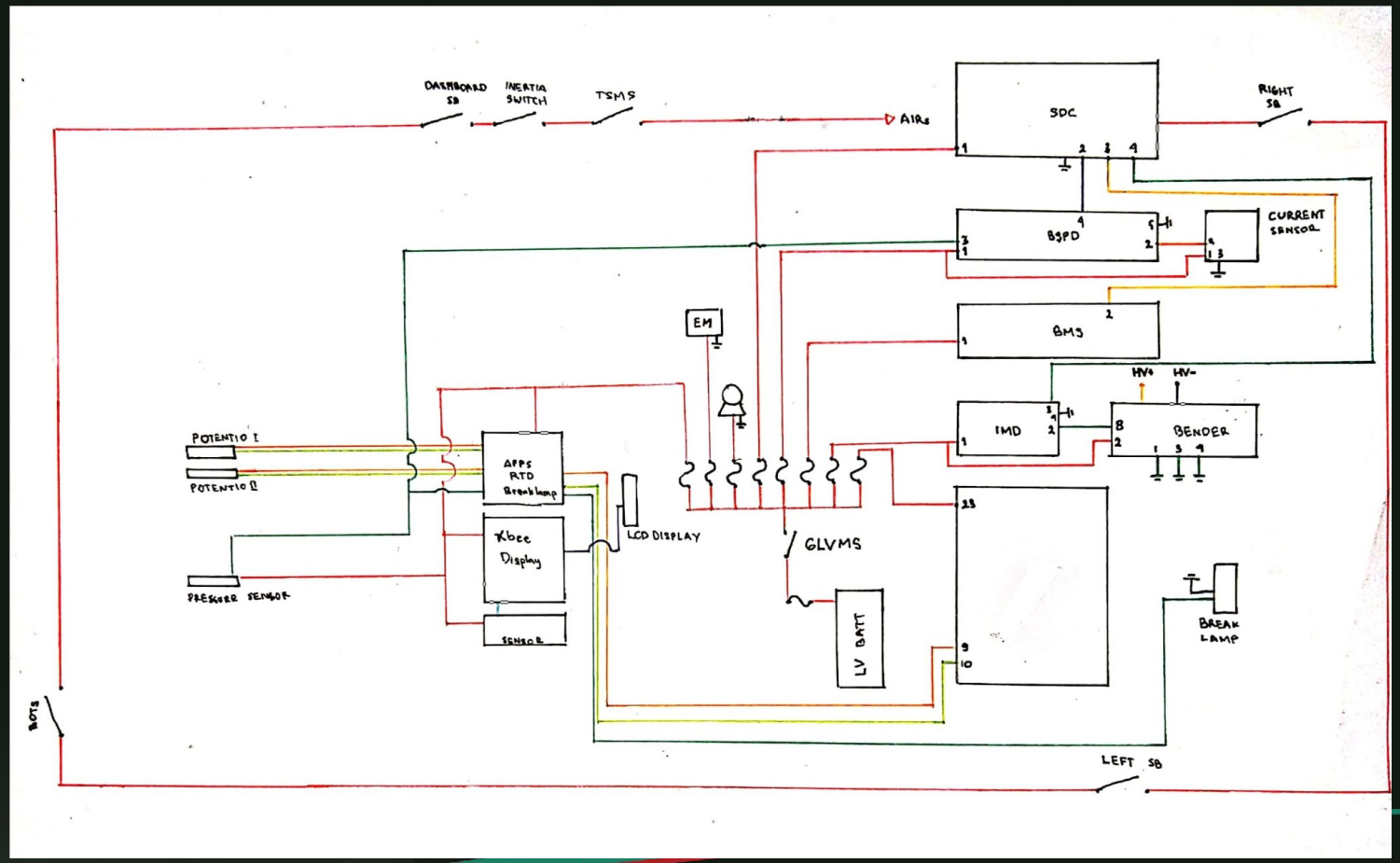
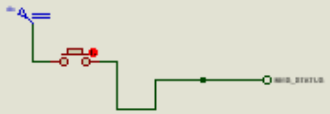
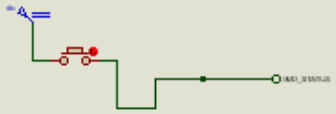
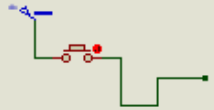

TSAL
3A
DC out
DC in
HV+
HV-
LV BATT
12V
TSMS
SDC_OUT
40A
HVD
HVIL
BOTS
Shutdown Button
Shutdown Button
GLVMS
Shutdown Button
RELAYING CIRCUIT
Inertia Switch
Output
BSPD status
IMD status
BMS status
Set/Reset
IMD LED
BMS LED
VCC 12V
GND
1k
1k
ANDERSON CONNECTOR
(CONNECTION TO SERIES THE BATTERY)
BMS
IMD
BSPD
20A
Controller
3A
RTD
3A
Brake Lamp
Set/Reset
3A
3A
3A
AWG18
AWG18
AWG18
AWG 18
SDC_OUT
FUSE1
350A
CONTAINER_1
152V
AIR_1
12V
AWG2/0
1K
RL_PRECHARGE
HVD
SDC_OUTPUT
RL_DISCHARGE
12V
C12
1uF
1K
ANDERSON CONNECTOR
AIR_2
12V
SDC_OUT

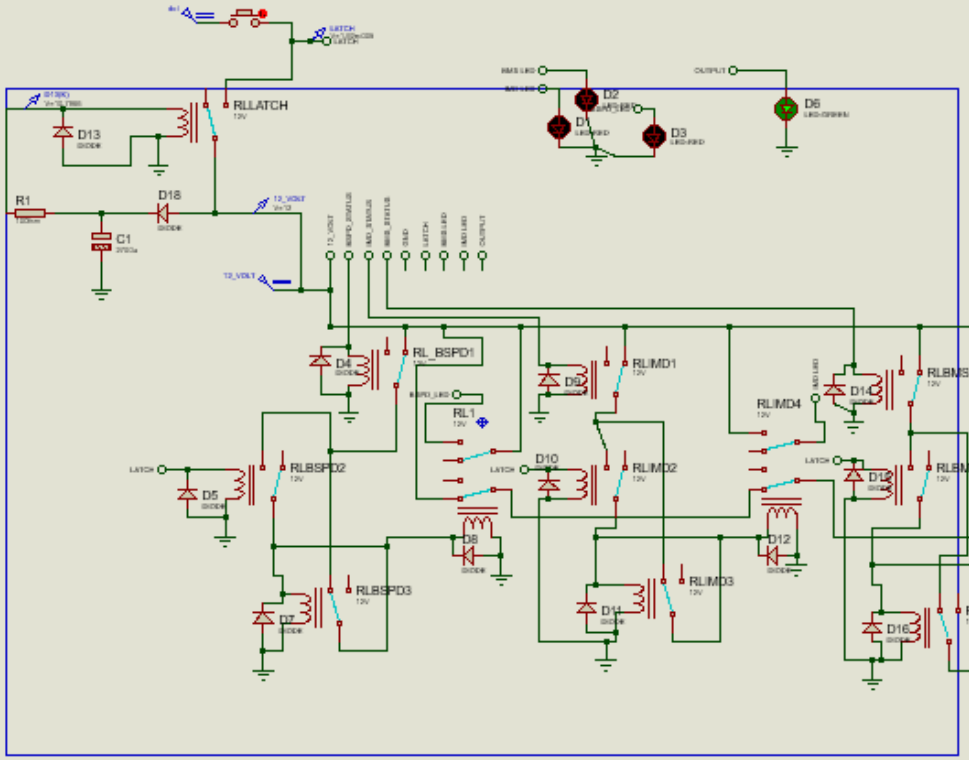
Diagram LV

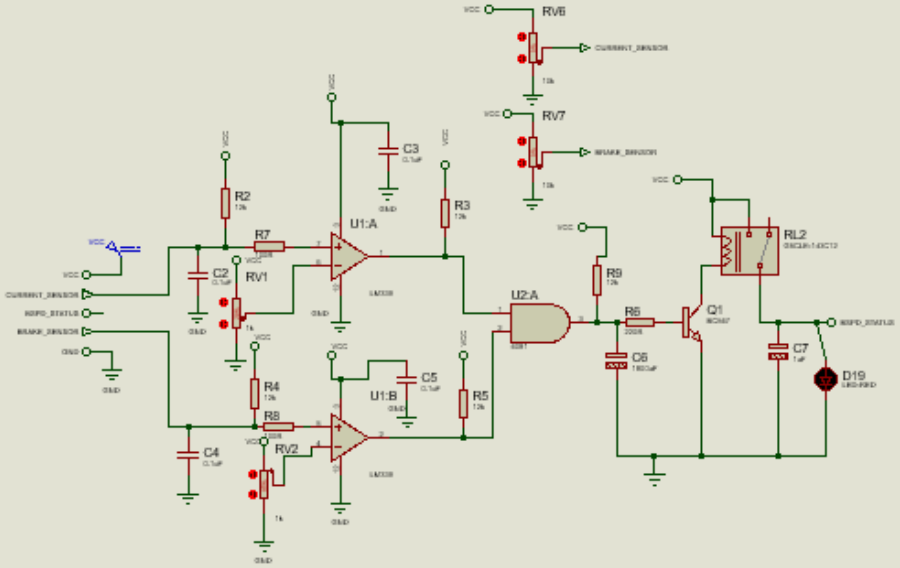

DASHBOARD SB
INERTIA SWITCH
TSMS
AIRs
SDC
RIGHT SB
BSPD
CURRENT SENSOR
BMS
EM
HV+
HV-
IMD
BENDER
POTENTIO I
POTENTIO II
APPS
RTD
Brake lamp
Knee Display
LCD DISPLAY
GLVMS
LV BATT
BREAK LAMP
BOTS
LEFT SB








RLLATCH
D13
R1
D18
C1
D2
D1
D3
D6
RL_BSPD1
RL1
RLBSPD2
RLBSPD3
RLIMD1
RLIMD2
RLIMD3
RLIMD4
RLBMS1
RLBMS2
RLBMS3
RLBMS4
D4
D5
D7
D8
D9
D10
D11
D12
D14
D15
D16
D17


RV6
RV7
RV1
RV2
U1:A
U1:B
U2:A
R2
R3
R4
R5
R7
R8
R9
C2
C3
C4
C5
C6
C7
RL2
Q1
D19

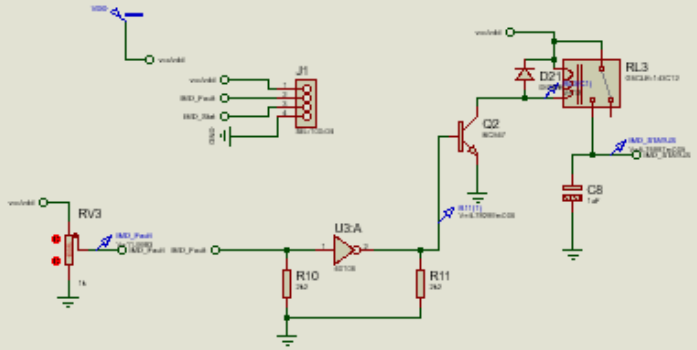
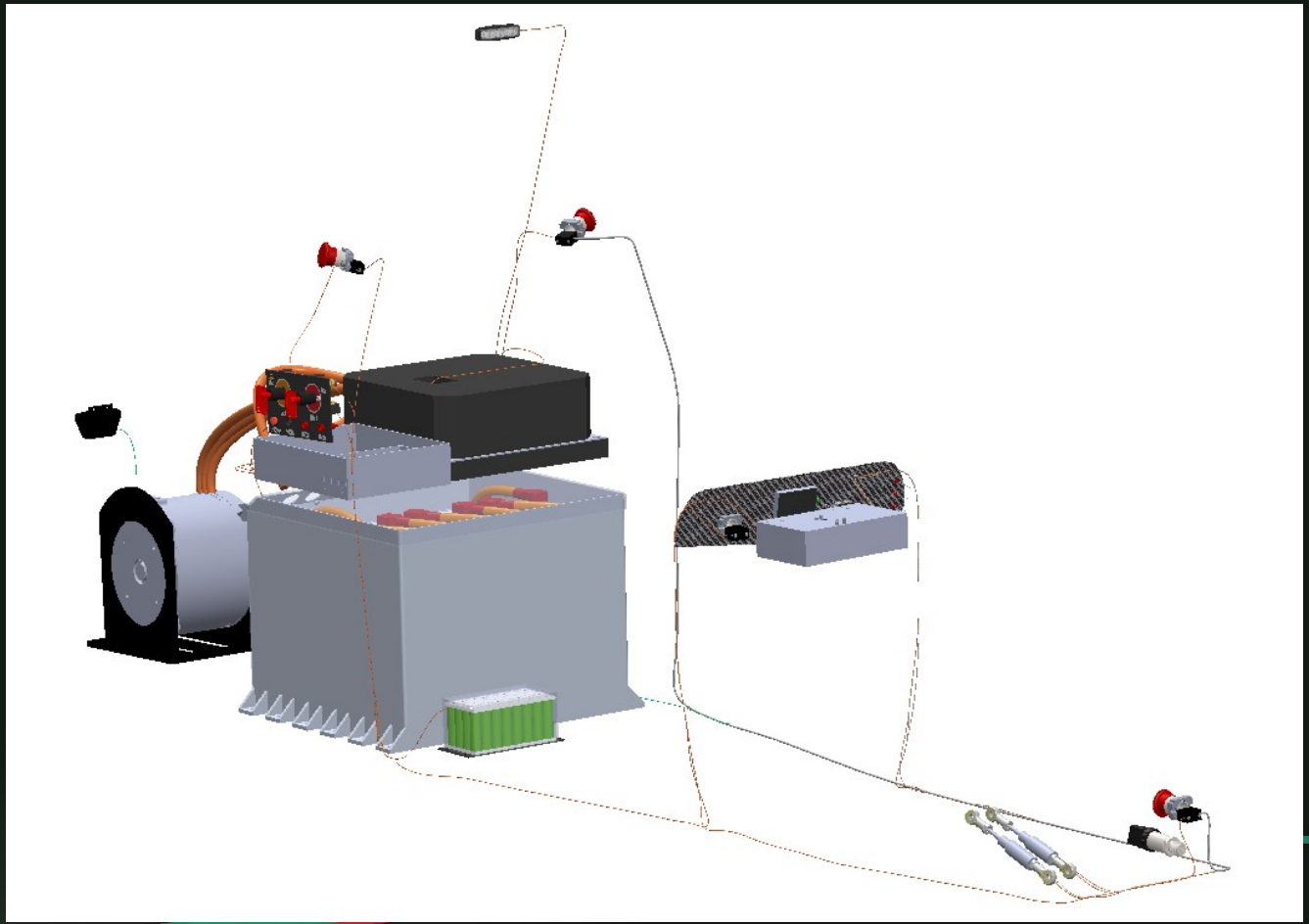

J1
RL3
D21
Q2
C8
RV3
U3:A
R10
R11

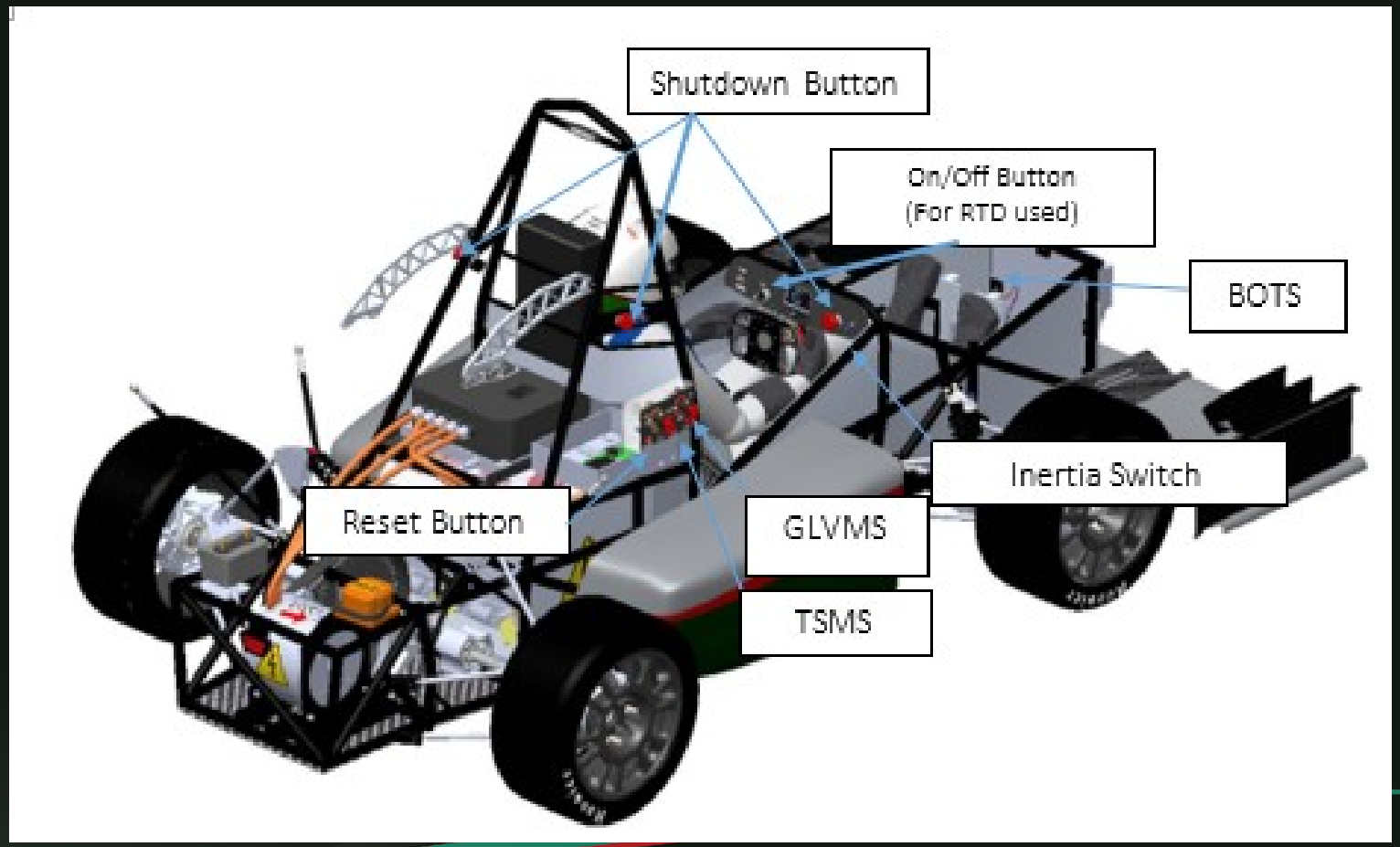
Diagram LV

- Jalur kabel (power dan sinyal)
- Fuse
- Komponen

Jalur Kabel



Posisi Switch



Kabel

- Pemilihan kabel sesuai dengan rating arus yang ditanggung
- Merah VCC
- Hitam GND
- Warna Sinyal
- Warna di diagram wiring harus sama dengan warna asli di mobil

Kabel

Flexible Silicone Wire Cable Specification (0.08mm Series)

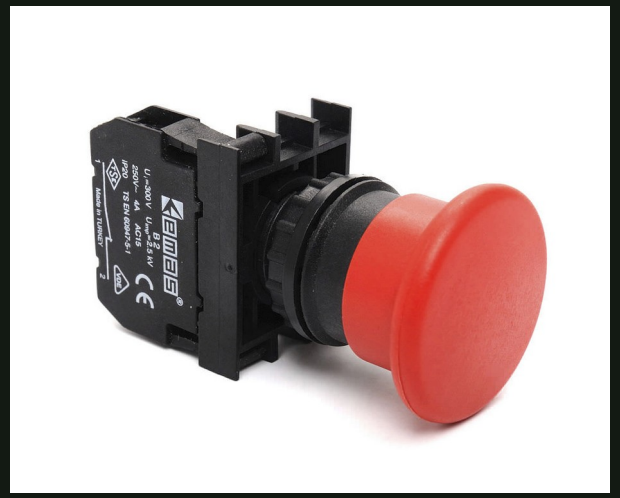
Size	Conductor Number	Conductor Diameter	Outer Diameter	Insulation Thickness	Conductor Resistance	Electric Current	Length Per Roll
30AWG	11 PCS	0.30 mm	0.8 mm	0.05 mm	331Ω/km	0.8 A	500 m
28AWG	16 PCS	0.32 mm	1.2 mm	0.08 mm	227Ω/km	1.2 A	500 m
26AWG	30 PCS	0.44 mm	1.5 mm	0.15 mm	123Ω/km	3.5 A	400 m
24AWG	40 PCS	0.58 mm	1.6 mm	0.20 mm	97Ω/km	5.0 A	400 m
22AWG	60 PCS	0.72 mm	1.7 mm	0.30 mm	88Ω/km	8.7 A	400 m
20AWG	100 PCS	0.92 mm	1.8 mm	0.50 mm	62Ω/km	13 A	400 m
18AWG	150 PCS	1.20 mm	2.3 mm	0.55 mm	39Ω/km	22 A	200 m
17AWG	210 PCS	1.45 mm	2.7 mm	0.58 mm	30Ω/km	30 A	200 m
16AWG	252 PCS	1.53 mm	3.0 mm	0.80 mm	24Ω/km	35 A	200 m
15AWG	300 PCS	1.70 mm	3.2 mm	0.85 mm	20Ω/km	45 A	200 m
14AWG	400 PCS	1.75 mm	3.5 mm	0.90 mm	15Ω/km	55 A	200 m
13AWG	500 PCS	2.20 mm	4.0 mm	0.90 mm	12Ω/km	100 A	100 m
12AWG	680 PCS	2.50 mm	4.5 mm	1.00 mm	9.0Ω/km	88 A	100 m
11AWG	750 PCS	2.65 mm	5.0 mm	1.05 mm	5.9Ω/km	120 A	100 m
10AWG	1050 PCS	3.00 mm	5.5 mm	1.20 mm	6.3Ω/km	140 A	100 m
8AWG	1650 PCS	4.40 mm	6.3 mm	1.20 mm	4.0Ω/km	190 A	100m
6AWG	3200 PCS	5.20 mm	8.5 mm	1.65 mm	1.2Ω/km	230 A	100 m

Komponen (fuse, relay, switch, IC, dll)

- Pemilihan sesuai datasheet komponen
- Cek ketersediaan (www.mouser.com)

Switch

Master Swicth



Push Stop Button

Position Switch

Push Button

TERIMA KASIH